

SUPPLEMENTAL AMENDMENT
U.S. Application No. 10/807,442

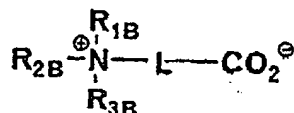
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

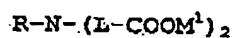
LISTING OF CLAIMS:

1. (currently amended): An inkjet ink set comprising at least two inks, wherein at least one ink contains a betaine compound and at least one other ink contains a nonionic surfactant, and

(A) the betaine compound is a compound represented by one of formulae (5) and (7),



(5)



(7)

wherein M¹ is an alkali metal cation or a hydrogen atom, at least one of R_{1B} to R_{3B}

and L in the formula (5) contains a group

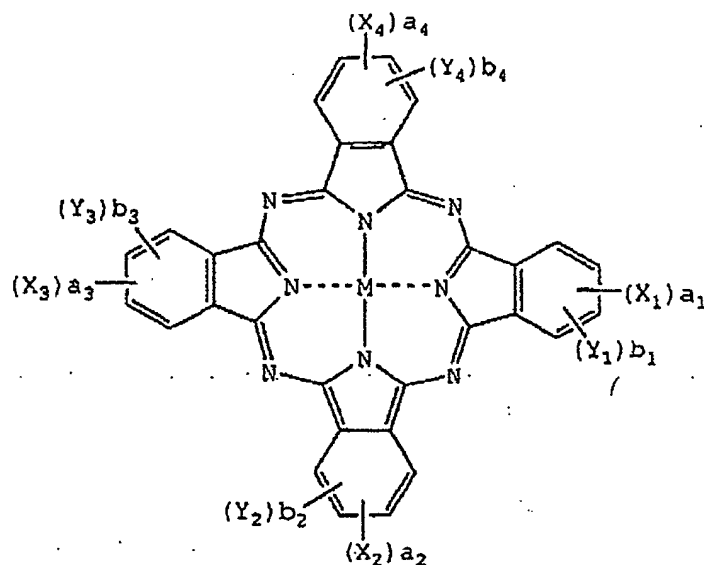
having 8 or more carbon atoms, and at least one of R and L in the formula (7)

contains a group having 8 or more carbon atoms; and

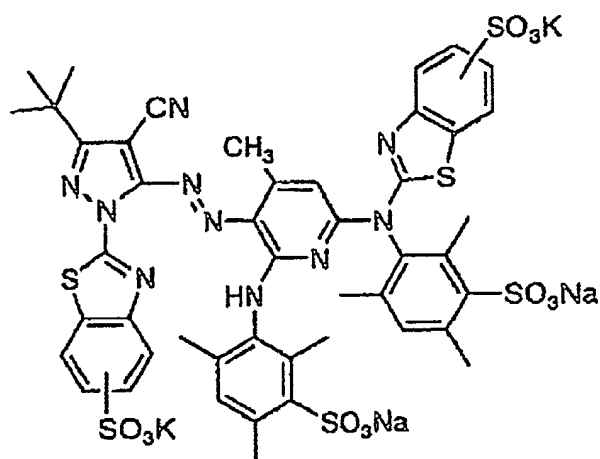
(B) the at least two inks contains a dye represented by one of formulae (CI), (M1), (Y1) and (BK2),

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CI

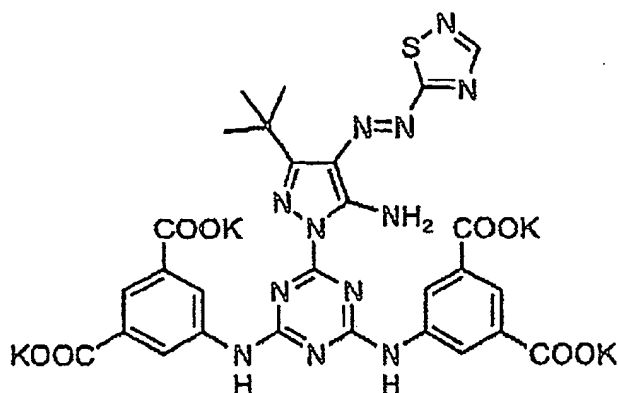


M-1

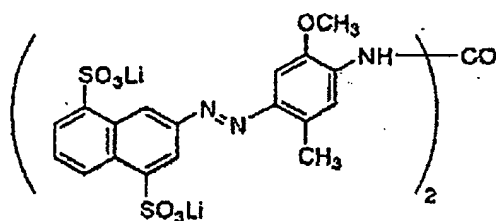


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Y-1



BK-2



wherein Y_1 , Y_2 , Y_3 and Y_4 each independently represents a hydrogen atom, a halogen atom, an alkyl group, a cycloalkyl group, an alkenyl group, an aralkyl group, an aryl group, a heterocyclic group, a cyano group, a hydroxyl group, a nitro group, an amino group, an alkylamino group, an alkoxy group, an aryloxy group, an acylamino group, an arylamino group, a ureido group, a sulfamoylamino group, an alkylthio group, an arylthio group, an alkoxycarbonylamino group, a sulfonamido group, a carbamoyl group, a sulfamoyl group, a sulfonyl group, an alkoxycarbonyl group, a heterocyclic group, an azo group, an acyloxy group, a carbamoyloxy group, a silyloxy group, an aryloxycarbonyl group, an aryloxycarbonylamino

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group, an imido group, a heterocyclic thio group, a phosphoryl group, an acyl group, a carboxyl group or a sulfo group, and

wherein X_1 , X_2 , X_3 and X_4 in the formula (CI) each independently represents $-SO-Z_c$, $-SO_2-Z_c$, $-SO_2NR_{1c}R_{2c}$ or $-CONR_{1c}R_{2c}$

wherein each Z_c independently represents an alkyl group, a cycloalkyl group, an alkenyl group, an aralkyl group, an aryl group, or a heterocyclic group; and R_{1c} and R_{2c} each independently represents a hydrogen atom, an alkyl group, a cycloalkyl group, an alkenyl group, an aralkyl group, an aryl group, or a heterocyclic group.

2. (original): The inkjet ink set according to claim 1, wherein at least one of the betaine compound is a compound represented by the following formula (1):



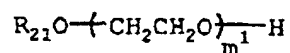
wherein R represents a hydrogen atom, an alkyl group, an aryl group or a heterocyclic group; L represents a di- or more valent linking group; M represents a hydrogen atom, an alkali metal atom, an ammonium group, a protonated organic amine or nitrogen-containing heterocyclic group or a quaternary ammonium ion group, provided that when $p+r$ is 4, one of Ms is not present; q represents an integer of 1 or more; r represents an integer of 1 to 4; p represents an

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integer of 0 to 4; p+r is 3 or 4 and when p+r is 4, the N atom becomes an ammonium atom; when q is 2 or more, COOMs may be the same or different; when r is 2 or more, L- (COOM)_qs may be the same or different; and when p is 2 or more, Rs may be the same or different.

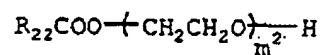
3. (currently amended): The inkjet ink set according to claim 1, wherein the nonionic surfactant is a compound represented by the following formula (2), (3) or (4):

Formula (2):



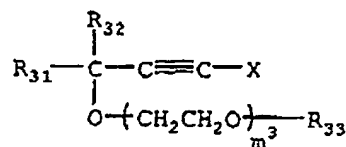
wherein R₂₁ represents an alkyl group having from 5 to 40 carbon atoms and m¹ represents an average addition molar number of ethylene oxide and is a number of 2 to 40;

Formula (3):



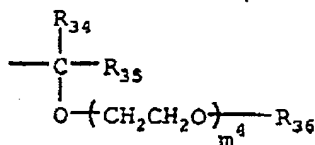
wherein R₂₂ represents an alkyl group having from 5 to 40 carbon atoms and m² represents an average addition molar number of ethylene oxide and is a number of 2 to 40;

Formula (4):



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wherein R_{31} and R_{32} each independently represents an alkyl group having from 1 to 18 carbon atoms, R_{33} represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group and X represents a hydrogen atom or



wherein, R_{34} and R_{35} each independently represents an alkyl group having from 1 to 18 carbon atoms, R_{36} represents a hydrogen atom, an alkyl group having from 1 to 6 carbon atoms or a phenyl group, m^3 and m^4 each independently represents an average addition molar number of ethylene oxide, and m^3+m^4 is from 0 to 100, provided that when m^3 is 0, R_{33} represents a hydrogen atom, when m^4 is 0, R_{36} represents a hydrogen atom, and when X is a hydrogen atom, m^3 is from 1 to 100.

4. (original): The inkjet ink set according to claim 1, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

5. (original): The inkjet ink set according to claim 2, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

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6. (original): The inkjet ink set according to claim 3, wherein at least one ink contains the betaine compound and at least one other ink contains a betaine compound and the nonionic surfactant.

7. (previously presented): The inkjet ink set according to claim 1, wherein the betaine compound is a compound which has both of a cationic site and an anionic site in its molecule.

8. (previously presented): The inkjet ink set according to claim 7, wherein the cationic site is selected from the group consisting of an aminic nitrogen atom, a nitrogen atom of a heteroaromatic ring, and a phosphoric atom, and the anionic site is selected from the group consisting of a hydroxyl group, a thio group, a sulfonamido group, a sulfo group, a carboxyl group, an imido group, a phosphate group, and a phosphonate group.

9. (previously presented): The inkjet ink set according to claim 1, wherein the dye has an oxidation potential nobler than 1.0 V (vs. SCE).

10. (previously presented): The inkjet ink set according to claim 1, wherein the dye has at least two heterocyclic groups.

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11. (previously presented): The inkjet ink set according to claim 10, wherein the heterocyclic group is a 5-membered heterocyclic group or a 6-membered heterocyclic group in which hetero atom is at least one of N, O and S.

12. (previously presented): The inkjet ink set according to claim 10, wherein the heterocyclic group contains at least one of pyridine, thiophene, thiazole, benzothiazole, benzoxazole and furan rings.

13. (previously presented): The inkjet ink set according to claim 1, wherein at least one of the inks contains a phthalocyanine dye containing at least one of -SO-, -SO₂-, -CO- and -CO₂-.

14. (previously presented): An inkjet recording method, comprising recording an image in an inkjet printer comprising the inkjet ink set according to claim 1.

15. (previously presented): An inkjet recording method, comprising recording an image in an inkjet printer comprising the inkjet ink set according to claim 2.

16. (previously presented): An inkjet recording method, comprising recording an image in an inkjet printer comprising the inkjet ink set according to claim 3.

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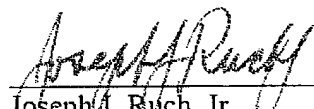
Respectfully submitted,

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Date: October 19, 2005

CERTIFICATION OF FACSIMILE TRANSMISSION

Sir:

I hereby certify that the above identified correspondence is being facsimile transmitted for entry and consideration by Examiner Helene G. Klemanski at the U. S. Patent and Trademark Office on October 19, 2005 at 703-872-9306.

Respectfully submitted,


April D. Henderson